

ABSTRACT OF THE DISCLOSURE

A noise filter includes four magnetic layers including upper and lower magnetic layers and intermediate magnetic layers which are laminated to define a laminated unit. Two signal lines are disposed side by side between the intermediate magnetic layers, and two ground electrodes sandwich the intermediate magnetic layers therebetween so as to form a transmission line. A dielectric member is disposed between the two signal lines. With this configuration, a common-mode signal is attenuated by utilizing magnetic loss in the magnetic layers. In contrast, by providing the dielectric member, a normal-mode signal is allowed to propagate by reducing the effective relative magnetic permeability while preventing the occurrence of blunt waves.